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NOTICE OF ALLOWANCE AND FEE(S) DUE

22879

7590

11/04/2008

HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400

EXAMINER				
TABONE JR, JOHN J				
ART UNIT	PAPER NUMBER			
2117				

DATE MAILED: 11/04/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/635.369	08/06/2003	Richard W. Adkisson	200208998-1	1303

TITLE OF INVENTION: INCREMENT/DECREMENT CIRCUIT FOR PERFORMANCE COUNTER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/04/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

appropriate. All further of	correspondence includin d below or directed oth	ig the Patent, advance or	rders and notification of r	naintenance fees wi	red). Blocks 1 through 5 s ill be mailed to the current and/or (b) indicating a sepa	correspondence address as	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION		I he Stat addı tran	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.				
FORT COLLINS	S, CO 80527-2400					(Depositor's name)	
				(Signature)			
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/635,369	08/06/2003	· · · · · · · · · · · · · · · · · · ·	Richard W. Adkisson		200208998-1	1303	
TITLE OF INVENTION:	INCREMENT/DECRE	MENT CIRCUIT FOR P	ERFORMANCE COUNT	ER			
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/04/2009	
EXAMI	INER	ART UNIT	CLASS-SUBCLASS				
TABONE JE	R, JOHN J	2117	714-724000	,			
1. Change of corresponder	nce address or indication	n of "Fee Address" (37	2. For printing on the p	atent front page, list			
CFR 1.363). Change of correspo	ondence address (or Cha d/122) attached.	nge of Correspondence	(1) the names of up to or agents OR, alternative	up to 3 registered patent attorneys $^{-1}$ ————————————————————————————————————			
	/122) attached. cation (or "Fee Address'		(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
PTO/SB/47; Rev 03-02 Number is required.	2 or more recent) attach	ed. Use of a Customer	2 registered attorney of a 2 registered patent atto- listed, no name will be	rneys or agents. If n	to name is 3		
3. ASSIGNEE NAME AN	ND RESIDENCE DATA	A TO BE PRINTED ON T	ГНЕ PATENT (print or typ	pe)			
PLEASE NOTE: Unle	ess an assignee is identi in 37 CFR 3.11. Comp	fied below, no assignee eletion of this form is NO	data will appear on the pa T a substitute for filing an	atent. If an assigne assignment.	e is identified below, the d	ocument has been filed for	
(A) NAME OF ASSIG	•		(B) RESIDENCE: (CITY		OUNTRY)		
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Please check the appropria	ate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Con	rporation or other private gro	oup entity Government	
4a. The following fee(s) a	re submitted:	4t	_ '	se first reapply an	y previously paid issue fee	shown above)	
☐ Issue Fee ☐ Publication Fee (No	o small entity discount p	permitted)	☐ A check is enclosed. ☐ Payment by credit car	d Form PTO-2038	is attached		
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5 Ch F	/C	1.1.	overpayment, to Depo	sit Account Number	r(enclose a	n extra copy of this form).	
5. Change in Entity State a. Applicant claims	us (from status indicated SMALL ENTITY statu	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no long	ger claiming SMAL	L ENTITY status. See 37 C	FR 1.27(g)(2).	
**	l Publication Fee (if requ	ired) will not be accepted	d from anyone other than t		tered attorney or agent; or th		
Authorized Signature				Date			
Authorized Signature Typed or printed name				Date			
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an application. Confidenti submitting the completed this form and/or suggestic Box 1450, Alexandria, Vi Alexandria, Virginia 2231	application form to the ons for reducing this bur irginia 22313-1450. DO	U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR (1.14. This collection is est depending upon the indivention of the collection of the complete that the control of the complete that the control of the complete that the control of	imated to take 12 m idual case. Any cor er, U.S. Patent and T D THIS ADDRESS.	ninutes to complete, includir mments on the amount of ti frademark Office, U.S. Dep SEND TO: Commissioner	g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,	

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10/635,369	08/06/2003	Richard W. Adkisson	200208998-1	1303
22879 75	590 11/04/2008		EXAM	INER
HEWLETT PAC	KARD COMPANY		TABONE JR, JOHN J	
,	3404 E. HARMONY I		ART UNIT	PAPER NUMBER
INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400		STRATION	2117 DATE MAILED: 11/04/200	0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1065 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1065 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.		Applicant(s)	
	10/635,3	69	ADKISSON, RICHA	RD W.
Notice of Allowability	Examine		Art Unit	T
	JOHN J.	TABONE JR	2117	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMA or other a IGHTS . The and MPE	AINS) CLOSED in this appropriate communication is application is subject P 1308.	oplication. If not includ in will be mailed in due	ed course. THIS
2. X The allowed claim(s) is/are 1-11 and 18-20; renumbered to	<u>o 1-14</u> .			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do 	e been rece e been rece	eived. eived in Application No		ation from the
International Bureau (PCT Rule 17.2(a)).	Cuments II	ave been received in this	s national stage applica	mon nom me
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	MENT of thi	s application. the attached EXAMINE	R'S AMENDMENT or N	
INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") must	•		ation is deficient.	
(a) ☐ including changes required by the Notice of Draftspers			0-948) attached	
1) hereto or 2) to Paper No./Mail Date			·	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1				o book) of
each sheet. Replacement sheet(s) should be labeled as such in t				s back) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 				Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)		5.	Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		6. Interview Summar		
3. Information Disclosure Statements (PTO/SB/08),		Paper No./Mail Da 7. ⊠ Examiner's Amend		
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		8. ⊠ Examiner's Statem 9. □ Other	nent of Reasons for Allo	owance
/John J. Tabone, Jr./		/JACQUES H LOUIS	-JACQUES/	
Examiner, Art Unit 2117 10/16/2008		Supervisory Patent Ex		0

DETAILED ACTION

1. Claims 1-11 and 18-20 are currently pending and have been examined. Claims 1-4, 6, 7, 18 and 19 have been amended. Claims 12-17 have been cancelled.

Response to Arguments

2. Applicant's arguments filed 08/22/2008 with respect to claims 1-11 and 18-20 have been fully considered and are persuasive. The Non-Final Rejection of 01/14/2008 has been withdrawn.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Specification, paragraph [0002]:

In the line(s) reciting "Serial No. 10/635,083, filed August 6, 2003, entitled GENERAL PURPOSE PERFORMANCE COUNTER" add ", now US Patent No. 7,424,397," after the word "COUNTER".

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Art Unit: 2117

In the line(s) reciting "Serial No. No. 10/635,371, filed August 6, 2003, entitled COVERAGE CIRCUIT FOR PERFORMANCE COUNTER" add ", now US Patent No. 7,415,643," after the word "COUNTER".

In the line(s) reciting "Serial No. No. 10/635,372, filed August 6, 2003, entitled COVERAGE DECODER CIRCUIT FOR PERFORMANCE COUNTER" add ", now US Patent No. 7,275,191," after the word "COUNTER".

In the line(s) reciting "Serial No. 10/635,103, filed August 6, 2003, entitled DATA SELECTION CIRCUIT FOR PERFORMANCE COUNTER" add ", now US Patent No. 7,404,112," after the word "COUNTER".

In the line(s) reciting "Serial No. 10/635,079, filed August 6, 2003, entitled ZEROING CIRCUIT FOR PERFORMANCE COUNTER" add ", now US Patent No. 7,430,696," after the word "COUNTER".

In the line(s) reciting "Serial No. 10/635,373, filed August 6, 2003, entitled MATCH CIRCUIT FOR PERFORMANCE COUNTER" add ", now US Patent No. 7,331,003," after the word "COUNTER".

Specification, paragraph [0003]:

In the line(s) reciting "10/402,092" add ", now US Patent No. 7,146,538," after "10/402,092".

In the line(s) reciting "10/402,034" add ", now US Patent No. 7,188,277," after "10/402,034".

Specification, paragraph [0024]:

Art Unit: 2117

In the line(s) reciting "Serial No. 10/635,373, filed August 6, 2003, entitled MATCH CIRCUIT FOR PERFORMANCE COUNTER" add ", now US Patent No. 7,331,003," after the word "COUNTER".

Specification, paragraph [0026]:

In the line(s) reciting "Serial No. 10/635,103, filed August 6, 2003, entitled DATA SELECTION CIRCUIT FOR PERFORMANCE COUNTER" add ", now US Patent No. 7,404,112," after the word "COUNTER".

In the line(s) reciting "Serial No. 10/635,079, filed August 6, 2003, entitled ZEROING CIRCUIT FOR PERFORMANCE COUNTER" add ", now US Patent No. 7,430,696," after the word "COUNTER".

Allowable Subject Matter

3. Claims 1-11 and 18-20 are allowed.

The following is an Examiner's Statement of Reasons for Allowance:

The present invention relates to an increment/decrement circuit for use with a general purpose performance counter ("GPPC") connected to a bus carrying debug data.

The claimed invention as set forth in **claim 1** (broadest claim) recites features such as:

An increment/decrement circuit for use with a general purpose performance counter ("GPPC") connected to a bus carrying debug data, the increment/decrement circuit comprising:

a delay circuit block operable to receive and align a multi-bit block of said debug data;

a first mask circuit connected to said delay circuit block, wherein said first mask circuit is operable to select a first portion of said aligned, multi-bit block of debug data;

a second mask circuit connected to said delay circuit block, wherein said second mask circuit is operable to select a second portion of said aligned, multi-bit block of debug data;

an accumulation circuit connected to said first mask circuit and said second mask circuit, said accumulation circuit for generating an accumulated value using said first portion and said second portion.

The prior arts of record, namely **Elliott et al.** (US-6826247, teach an increment/decrement circuit which is part of a digital phase lock loop and high precision digital phase comparator circuit. The prior arts of record also teach a reference clock signal 504 can be delayed using delay chain 502. Further, the delay measurement and ambiguity resolver circuit 512 of prior arts of record receives results from phase detectors 505 and based on the information from the phase detection, generates an increment or decrement signal to averaging counter 514 based on whether the measured delay of delay chain 502 is too fast or too slow.

The prior arts of record, however, fail to teach, singly or in combination, a delay circuit block operable to receive and align a multi-bit block of said debug data; a first mask circuit connected to said delay circuit block, wherein said first mask circuit is operable to select a first portion of said aligned, multi-bit block of debug data; a second

mask circuit connected to said delay circuit block, wherein said second mask circuit is operable to select a second portion of said aligned, multi-bit block of debug data; an accumulation circuit connected to said first mask circuit and said second mask circuit, said accumulation circuit for generating an accumulated value using said first portion and said second portion. As such, modification of the prior art of record to include the claimed delay circuit block, first and second mask circuit and accumulation circuit can only be motivated by hindsight reasoning, or by changing the intended use and function of the prior art themselves. Therefore, it is not clear that one of ordinary skill in the art at the time of the invention would have made the necessary modifications to the prior art of record to encompass the delay circuit block, first and second mask circuit and accumulation circuit set forth in the present application. Moreover, none of the prior arts of record, taken either alone or in combination, anticipate nor render obvious the delay circuit block, first and second mask circuit and accumulation circuit as set forth in claim 1. Independent claim 18 recites similar patentable features and is allowed for the same reasons as claim 1. Hence, claims 1-11 and 18-20 are allowable over the prior arts of record.

The Examiner agrees with the Applicant's arguments with regard to this feature in view of the arts of record; therefore, the Examiner favors the allowance of **claims 1-11 and 18-20**. Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOHN J. TABONE JR whose telephone number is (571)272-3827. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JACQUES H. LOUIS JACQUES can be reached on (571) 272-6962. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JACQUES H LOUIS-JACQUES/ Supervisory Patent Examiner, Art Unit 2100 /John J. Tabone, Jr./ Examiner Art Unit 2117 10/16/2008